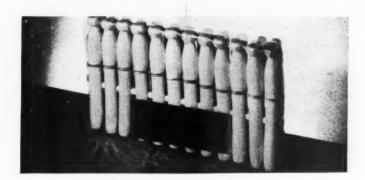


VOL. 56

THE NATIONAL FRUIT MAGAZINE

NO. 6



STUDY THIS PICTURE BEFORE "GOING TO MARKET"

HE magic of a transparent wrapping has transformed these rows of inanimate wood-en clothes pins into SUCCESSFUL SALES-MEN.

The clothes pins themselves are, perhaps, no better or no worse than any other well-made wooden clothes pin BUT—

Done up in rows they stand smartly at attention, like little soldiers, and seem to say, "Madam, we are ready to serve you!"

The transparency of the modern material in which these self-confident clothes pins m which these self-confident clothes pins are wrapped permits them to display the fact that they are NEW and CLEAN. "Look," they seem to say, "see for yourself how spick and span and SANITARY we are!"

But there is still more sales psychology wrapped up in this package. Take note of its size. Two rows of smiling clothes pins, two dozen in all. Tightly, neatly, visually wrapped, they make a light, flat, oblong package, five by ten inches in size, that

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readily fits a woman's hand-(that's right, you've guessed it!)-just like her pocket-

Measure Your Fruit Packaging Needs 9 By Dean Halliday

Window Cartons—Protect the Fruit Without Obstructing the Sales View 10 By Jonas Howard

Protective and Distinctive Packaging for Quality Fruits..... By W. H. Zipf

American Pomology

A Page Conducted in the Interests of the American Pomological Society

Reliable Varieties of Nuts for Iowa....12 Rx for Roadside Stands-Fruit Well Displayed Is Half Sold By Charles W. Hauck

State News from Near and Far..... Successful Orchards ..

Buyer's Guide for the Fruit Farm-Classified Index..... Annual Directory Section.....20-44

READERS' SERVICE

The "Booklets and Catalogs for the Asking" feature published last year in the June Directory Edition will appear in the coming July issue.

AMERICAN FRUIT GROWER

book does. There's CONVENIENCE for

The women folks are just naturally buying these up-to-date clothes pins ON SIGHT. And paying a higher price for them, too! Stores report they can't sell the bulk kind once women buyers have seen these modern package clothes pins.

You're wondering, of course, what clothes pins have to do with the fruit industry. Well, just this! If these little, round pieces of wood which women have always associated with wash-day drudgery, always associated with wash-day drudgery, can be taken in hand by merchandising experts and transformed into STAR SALES-MEN by the magic of Modern Packaging, think of the possibilities for sales promotion which this same Magic of Modern Packaging offers the fruit industry!

That's why we say to every reader of this magazine, study the above picture, small as it is, before you go to market again with your fruit products—for it may hold the secret of your future success.

E. G. K. MEISTER

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Above: Here is the long-popular McCormick-Deering 10-20 Tractor at work-operating an orchard spray rig.



Above: The McCormick-Deering T-20 TracTracTor—with low orchard seat—pulling a heavy offset disk harrow in a Georgia orchard.

Below: The compact McCormick-Deering 0-12 Tractor pulling a McCormick-Deering Grove Plow in a Florida grove.

T MAY be all right to take chances on small thing. but when it is time for a major step that will affer all your working days and your entire family's welfare chance and experiment must be avoided. Your purchase of a tractor is such a step. When you invest in tractor power you want to be sure of many things. You want it to be of utmost utility the year around; to be perfectly adapted for good work with many machines; and to be of such lasting quality that it will still be handling your work years from now.

International Harvester and your McCormick-Deering dealer give you this assurance in fullest measure, Your choice of a tractor in the McCormick-Deeting line-whether it be orchard tractor, regular wheel-type, crawler, or Farmall-type-is the most capable tractor that money can buy. You can bank on International Harvester experience! Thirty years of progress, with both power AND power machines, has made this Company the largest tractor builder in the world. You will get best performance, economy, and service from a McCormick-Deering tractor.

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AMERICAN FRUIT GROWER

JUNE, 1931

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MEASURE YOUR FRUIT PACKAGING NEEDS

By DEAN HALLIDAY

MODERN packaging presents a sales opportunity and a challenge to the fruit industry. It also presents a problem. That problem is the careful determination—the measuring—of the individual fruit grower's packaging needs, or an association's needs, if, as the case may be, a group of fruit growers distribute and market through an organization using an over-all brand or trade-mark.

Today the fruit grower must first realize and recognize that the magic of modern packaging is changing the whole problem of "going to market." In the old days a grower just naturally used the wooden barrel, box or basket that, by tradition, was standard practice in his part of the country. Low cost, durability and shipping convenience were the chief considerations governing the choice of container. The consumer reaction, that is, the convenience or preference of millions of housewives—the nation's food buyers-was scarcely considered. The letthem-buy-in-bulk attitude of growers and shippers paralleled the "buyer beware" warning which grew in the minds of women purchasers, after generations of buying fruit in containers that displayed the product temptingly ripe and perfect on top and green or spotted and bruised on the

Today the American housewife insists upon "seeing" what she buys before she buys, and she very much prefers to buy fruit, as well as other foods in a package or container that has been designed to fit her needs and convenience rather than that of some middleman.

Producers, packers, shippers and merchandisers of food products other than fruits, are alive to this situation, the factors that affect your problem.

and have been for some time. They are fully aware of today's woman buyer's preference for modern packaging, and they are very profitably capitalizing on it. If you don't believe this, go shopping with your wife and watch her consciously or subconsciously pass up bulk bacon for machine-sliced bacon done up in tempting half-pound or pound packages in a transparent protective wrapping. Watch her buy rice in an attractive, convenient-sized carton, which even has a window in it so she can see that each grain is fine and white and perfect. You can remember, of course, that-until recent years-rice, like sugar, was always scooped out of a barrel or bin. If the grocer (God bless him as an overworked individual) didn't have time to wipe the coal oil off his fingers, and the bulk rice picked up the taint of it-well, that was just extra measure, like the butcher's thumb on the meat

The list of things your wife will buy in packages is endless-so why

In the matter of fruit packaging, each fruit presents its own problem. There is also the factor of how you ship and to what market. Direct selling and roadside sales also enter into your packaging picture. Yet, if you will measure your fruit packaging needs by the yardstick shown at the start of this article, you can determine

In order of importance as applied to the merchandising of fruit, these factors are as follows:

Protection to Contents: To you as a grower and shipper, this means a package that will protect the fruit in transit and in handling. To the consumer-buyer, protection means sanitation, protection against dust, dirt, flies and insects, as well as the soiled fingers of some hesitant buyer who wants to appraise the product by touching or handling it. Modern transparent wrappings used in various ways are the solution to this problem.

Appearance of Package: Fruit is excelled only by candy in its possibilities for attractive packaging. Since women "buy by eye," thought should be given to the selection of a package design, whether the container be an expensive or low cost unit. The possibilities of fitting both package and package design to a particular fruit are almost unlimited. Get all the expert advice possible on the appearance of your particular package before investing in it. Do not fool yourself into feeling that because the fruit it-

(Continued on page 17)

PAGE 9

AMERICAN FRUIT GROWER

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WINDOW CARTONS

By JONAS HOWARD

OF the recent introductions in the small-unit package field for fruit, the window carton is probably the most important. Made possible by the development of more durable transparent papers, the window carton has stepped to the front in the fruit packaging field.

A window carton for doughnuts doubled the sales of this product in a Brockton, Mass., bakery. Surely if such a result was obtained with a food product such as doughnuts, fruit, which would make a much more attractive package, cannot help but have its sales-appeal increased when packed in such a carton—which protects the fruit without obstructing the sales view.

Fruit sold in bulk or in old-fashioned containers is too often placed in
an obscure corner of the retail outlet
or, if given suitable space, it is not
properly displayed. The use of window cartons for fruit changes it from
a floor-bin stock item to a fast selling,
profitable special. Such a package,
with the brightly colored fruit showing through the protecting window,
adds beauty to the wares of any retail store or roadside stand.

The window carton has another appeal to the buyer in that it denotes an extra effort on the part of the grower to please. In the case of perishable foods, especially, the consumer wants to see what he is buying, yet

PROTECT THE FRUIT WITHOUT OBSTRUCTING THE SALES VIEW

have the product protected against contamination. This may be accomplished when the fruit is packed in the window carton.

Just as the window carton allows for vision of the product, it emphasizes the quality of the fruit so that the consumer knows what is being purchased and thus has no hesitation prompted by fear of the condition of the fruit.

From the small berry box with its transparent cover to the large carton for apples and pears, the window carton has a widespread application for all fruits. The color of the box may be blended with the color of the fruit or worked out as an artistic contrast according to the desires of the grower.

The trade of some of the larger eastern cities reported excellent sales last season of apples put up in window cartons. These were most readily sold at fruit stands, but will probably receive quick acceptance in other retail outlets as their distribution is extended.

The cartons are easily packed in a cardboard shipping container, which because of its construction lends itself to easy stacking and a minimum of space. The smaller sized sales unit supplies the amount of fruit most readily consumed by the city dweller. When purchases are made on the bushel basis there is likely to be spoilage or shrinkage before this amount can be consumed.

For the many growers who hold their top-grade fruit in storage, the window carton allows for a distribution of a special package throughout the season. In this manner the buyer may be supplied over a longer period as the consumer demand continues for this type of package. The better type of fruit will be held over a longer marketing season under this system.

A definite place has been taken by the window carton on the fruit packaging scene and will be worth consideration by every grower for special packaging of No. 1 fruit.

As the retailer takes up the window carton and allows for proper display of this special package, there should be a greater acceptance of the package as a handy purchase unit on the part of the consumer. Whatever might be the specific market situation, it is logical that the window carton is a good investment for the fruit grower in supplying a handy package giving fruit protection as well as sales view.

AMERICAN FRUIT GROWER

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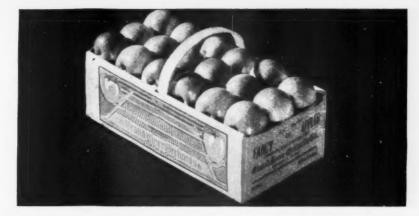
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With the reta stand leeway package

Latest car fruit. Fro small hand for apple boxes for

JUNE, 1936 JUNE, 1936

Protective and Distinctive



PACKAGING FOR QUALITY FRUITS

By W. H. ZIPF

CHANGE is definitely taking place in the fruit packaging field—both in the matter of the larger fruits, such as apples, and particularly in the marketing of small fruits. This is clearly shown by the recent statement of H. L. W. Hill, president of the Raspberry Growers' Association of Portland, Tenn., when he said, in part, "A case of 24 half-pint cups of raspberries will bring almost as much on the Chicago market as a case of 24 pint cups." The implication is clear that the shift toward smaller containers is occurring on the larger markets.

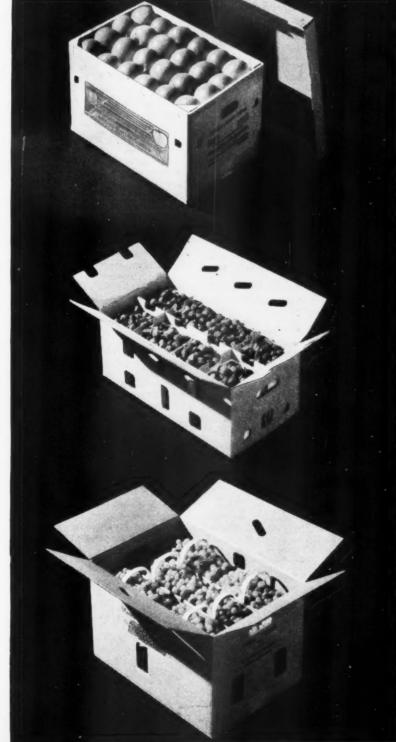
Whatever might be the change made by growers in specific sections who have a certain market demand to meet, the bulk of small fruit sales are still made in the American box for berries and the Climax basket for grapes. The American box has been retained in favor due probably to the lack of extra labor in assembling during the busy harvest season, as it comes made up, and because of good ventilation and durability. For some of the special demands, grapes are being packed in the quart American box.

In recent years there have appeared on the market many modifications of the American box. Prominent among these introductions are the paraffined cardboard box and the molded paper box. There are arguments for and against these types, and their popularity is increasing as they are being used by more growers.

With the smaller sized packages, the retail dealer and the roadside stand operator are given more leeway for displaying combination packages, which results in greater

(Continued on page 19)

Latest cardboard containers for all types of fruit. From top to bottom they are: The small hand-basket for apples, a bushel box for apples, shipping crate and individual boxes for berries and shipping crate and individual baskets for grapes.



AMERICAN FRUIT GROWER

AMERICAN POMOLOGY

A Page Conducted in the Interests of the American Pomological Society

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Edited by H. L. LANTZ, Secretary

PROCEEDINGS MAILED

THE Proceedings of the A.P.S. convention held in Hartford will likely have reached our members before this issue of AMERICAN FRUIT GROWER, It contains around 300 pages and we believe it to be one of the best reports published in recent years. All paid-up members of the A.P.S. will receive a copy, which will be mailed direct from the printer at New Haven.

MEMBERSHIPS: We need more members. Why not induce a friend to become a member? The fee is only \$1.25 per year, and for this fee the member surely gets value received.

During the year a few life memberships have come in. Plans for a life member-ship campaign are under way. We ought to have a large increase in the number of

ADVERTISERS. A considerable number of the leading orchard supply companies have generously participated in the affairs of the A.P.S. by purchasing advertising space in the Proceedings. This money is of great assistance in defraying the cost of printing, and releases other funds which are needed to meet other current expenses of the society. The officers of the society felt that inasmuch as the supply companies have a large stake in the fruit growing industry, they would be glad to have a part in financing the work of the oldest national horticultural society in the United States. The support of these supply companies is greatly ap-preciated and indicates their confidence in the program of the society.

State Horticultural Societies

To date a number of the strongest and most influential state horticultural societies have taken out affiliated A.P.S. memberships. Summer meetings will soon be in order. These are becoming more popular every year. Orchardists learn much at such meetings because here the teaching and the practice are brought together Such instruction is always rich in vivid experience.

Fruit Crop Prospects

At the present writing the general impression is that the 1936 fruit crop will be smaller than that produced in 1935. Re-gardless of the size of the fruit crop, fruit growers should make every effort to produce the highest grade fruit possible. Last season's experience with markets loaded with low grade apples meant low prices throughout the season. Regardless of the size of the crop in sight, now is the time to plan to produce the best grade of fruit possible. Quality was never more impor-tant than now. At the Ohio State Hor-ticultural Society meeting in January, Di-

Date Set for National Apple Institute Meeting

Plans have been completed for the meeting of the Board of the National Apple Institute, to be held at the Hotel Gibson in Cincinnati, Ohio, June 15.

Future actions and policies of the Institute will be discussed and all interested are urged to attend. The meeting is scheduled to get under way at 10:00 a.m. and will last throughout the day.

On June 16 the insecticide committee will meet at the same place and it is probable that those in attendance at the Institute meeting will also take part in the insecticide session to be devoted to dis-cussions of the lead problem.

rector V. R. Gardner of the Michigan Agricultural Experiment Station, in touch-ing upon this point, said: "Every expe-rienced producer knows that there is no money to be made from culls, that Bgrade or second-grade fruit barely pays raising and handling costs, and that profits, if any, come from the A-grade portion of the crop. Yet the records of individual growers and of community packing houses in Michigan (and doubtless in Obio as well) show that all the less in Ohio as well) show that all the way from 20 to 80 per cent of the crop, with an average of about 50, fails to meet the A-grade specifications-the percentage varying with season, variety, age of grower. How best to reduce the proportion of small-sized, off-shaped, under-colored, limb-rubbed and otherwise inferior specimens and increase the proportion of A-grade and Fancy fruits is a problem that faces every grower.

"Studies at the Michigan station several years ago and, more recently, studies conducted at a number of the other stations, have shown that almost half of the culling done at the packing house is occasioned by small size. In a large measure, then, the approach to the reduction or elimination of culls lies in measures aimed to increase size. . . .

"I do not wish to be understood as saying that by pruning alone large size can be obtained. No method or amount of pruning will take the place of thinning when there is an overload of fruit, and there must be a reasonable amount of soil moisture and nutrients available if the trees are to grow and fruit satisfactorily. It can be said, however, that by the use of the proper pruning, thinning and soil management methods, the small apple. and consequently a major part of the cull apple, problems can be largely eliminated."

AMERICAN FRUIT GROWER

Reliable Varieties of Nuts for lowa

HE development of a new horticultural industry is largely dependent on the discovery, propagation and testing of superior varieties of the plant in question. The location and testing of new nut varieties is a major activity of the Northern Nut Growers' Association. D. C. Snyder of Center Point, Iowa, a member of the association, has for many years been an active and careful tester of new nut varieties under lowa conditions. In a paper before the Rockport, Ind., meeting of the Northern Nut Growers' Association, Mr. Snyder summarized his many years of experience in nut culture and discussed the varieties considered thoroughly reliable in Iowa,

The Winkler native hazel, the largest of that class, does well throughout the state. The catkins are hardy and the variety will bear without other varieties near for crosspollination. Farther south and in the more arid regions to the west the catkins and even the bushes may winterkill. The Eueven the bushes may winterkill. The European filberts are only fairly hardy, often blight badly, and their catkins are quite commonly winterkilled. The Jones hybrids are much more promising, although their catkins are killed some winters.

The Thomas black walnut is placed at the top of the list, with Stambaugh gaining popularity. Bobwer is not considered

in popularity. Rohwer is not considered dependable, while Stabler is not fully hardy and is unproductive. Ohio is hardy and makes a beautiful but unproductive tree.

Mr. Snyder considers the Fairbanks hickory a satisfactory variety. The tree grows easily and bears heavily and regularly even when isolated from other varieties. The nuts are large, attractive, easily cracked and good if one eats several at a The bitterness is most pronounced in the first nut eaten and after that it is not objectionable to most people. Children as a rule overlook this bitterness. native Iowa hickory which is satisfactory in Iowa and elsewhere is Stratford. The tree grows well, bears very young and is very prolific. The nuts are of good size and quality with a thin husk. Stratford grows well on bitternut, shagbark and pecan stocks. It blooms and ripens earlier than other hickories.

Pecans as a rule will not mature their nuts in Iowa, but the hicans which ripen considerably earlier may take their place. The Des Moines variety is one of the best of its class, and the trees bear earlier and heavier crops than the better known Bur-lington or Marquardt. This latter variety lington or Marquardt. This latter variety is not wholly satisfactory, being rather slow in coming into bearing and not producing heavy crops. The nuts also are not well filled, whereas the kernels of Des Moines are plump.—G. L. SLATE, Sec'y, Northern Nut Growers' Ass'n, Geneva, N.Y.

JUNE. 1926

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CLEAN HANDS AND CLEAN FRUIT

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PART II

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MR. JOHN Q. PUBLIC is fast developing an appreciation of the highway beautiful. His interest in a fine roadbed is being matched by an interest in an attractive roadside. Moreover, he is becoming conscious of his power to control those roadsides. He is coming to a realization that the entire value of all roadside business ventures and of all advertisements erected along the public rightof-way is dependent upon the highway investment which comes out of his pocket. Without the road there could be no business. If he reaches the conclusion that outdoor advertisements of certain kinds and in certain locations is inimical to the public interest, he is sure to seek means of restricting them. That day is approaching rapidly. The smart roadside merchant will not wait to be forced into compliance with strict regulations, but will voluntarily restrict his use of tawdry and garish displays. He will make a deliberate attempt to transform his place of business into as inviting a beauty spot as possible. Those are the spots that pack in the customers.

Attempts to blend dissimilar types of retailing into one business rarely succeed in the field of roadside merchandising. To illustrate, we buyers don't like to have our food products handled by a salesman with the odors of gasoline and oil on his hands and clothing. I have yet to see a successful enterprise where farm produce is dis-

Truit Well Displayed Is Half Sold

By CHARLES W. HAUCK Ohio State University

played and sold at a filling station and where customers for both gasoline and fruits are served by the one attendant. If you decide that you must offer both auto fuel and foodstuffs, let me urge you to departmentalize the business as much as you can. Segregate the one from the other and provide separate sales persons in each department. Oil and eggs don't mix in business as successfully as in mayonnaise.

In general, quality requirements have not been as exacting in roadside selling as in other and less direct channels of distribution. Some orchardists and market gardeners, for example, use their markets solely to dispose of inferior grades which cannot be sold with profit, if at all, through wholesale outlets. It does not follow that only poor quality and ungraded produce is handled at roadside markets. Many enterprising marketers offer high quality goods, and it may be said that this business is gradually attaining higher standards.

Not all roadside markets can suc-AMERICAN FRUIT GROWER

ceed with a high quality appeal alone. Not all locations will furnish enough buyers for select grades to make the enterprise profitable. Buyers seem to fall into three general groups: first, those who insist upon fancy quality and are not repelled by high prices if the goods are satisfactory; second, those who demand fair to good quality at reasonable prices; and third, those who buy entirely on a price basis and will accept inferior quality without question if the price is low enough. The great majority of roadside buying is done by the second class.

The value of extensive and neatly arranged displays in attracting customers is not universally appreciated. It has been observed that better than

(Continued on page 16)



PAGE 13

STATE NEWS

FROM NEAR AND FAR



NEW YORK—The approved eastern apple crate has become more and more widely used each season in New York and New England. It seems particularly adapted to handling the McIntosh variety, which is, of course, the principal variety in the new eastern orchard situation. McIntosh bruises badly and it is difficult to handle. By packing directly into gift crates so that no extra handling is needed, the fruits get to the market and to the consumer with much less bruising than under the old system. The approved crate is 17 by 14 by 11 inches with side pieces 10½ inches high. Western New York has specified a crate 16 by 13½ at the ends, with side pieces 11½ inches high, feeling that this size would pack into freight cars to better advantage. There is, however, increasing interest in the approved eastern crate in the western New York area. Crates of this type are marked 1½ bushels. They are not overly expensive. They make a nice package to stack, and they store well and are easily packed. All in all the open apple crate represents a splendid addition to the type packages now in use and meets a need in eastern orchards and for eastern truck shipments, which is likely to call for still further use and development.—H. B. TUKEY, New York Agricultural Experiment Station, Geneva.

WEST VIRGINIA—In a studied effort to give the public its apples in the most convenient, most attractive and best package, several leading West Virginia growers are working with two package types new here: the five-pound bag and the New England crate.

Spasmodic attempts have been made at

Spasmodic attempts have been made at boxing here for 10 years, but the results have been so nebulous that the practice has gained no real headway. The basket has almost superseded the barrel as the package for West Virginia fruit, meantime; and the straight-side "export" tub, with crowned lid, ample side-papers and lid cushions, has become the accepted basket unit. One has only to compare the old round-buttom basket jumble pack of five years ago and the expertly-crowned bushel pack today to realize the improvement. The society two years ago campaigned among its members for the "export," crowned tub.

The H. W. Millers, senior and junior, at Paw Paw, the past year worked definitely in the two new packages. Results with both the five-pound bag and crate were so satisfactory that they are planning to increase their usage of them this year. Several other growers are using the crate.—CARROLL R. MILLER, Sec'y, Martinsburg.

PENNSYLVANIA—Some apple growers, chiefly those shipping to New York commission men, are trying out the New England apple box. Bushels, especially tubs, are increasing and barrels are decreasing in importance with the decline in the export markets. Peaches move chiefly in bushel baskets and to a lesser extent in half-bushels. Grapes are handled in bushel and half-bushel baskets. Juice grapes go to the factory in trays. Climax baskets are used to some extent for table grapes.

Paid-up members of the State Horticultural Association who failed to receive their copy of the Proceedings should drop a line to R. H. Sudds, State College. The regular issue was mailed on March 17, which was the date on which the big flood began. Many of these copies seem to have started for the Gulf of Mexico or the Atlantic Ocean shortly afterwards. While it may not be possible to supply everyone with a replacement, they will be sent free as long as they last. Please do not ask for a second copy unless you did not receive the first.—R. H. SUDDS, Sec'y, State College.

RHODE ISLAND—The packages used for fruit marketing in Rhode Island have changed radically in the last few years. The common package a few years ago for packed fruit was the tub bushel basket. The so-called "Boston Box" was used for jumble packs. A good many apples came onto the Providence market layer packed in the Boston Box; but they originated outside of the state. Few barrels have been in use for many years.

use for many years.

The situation this last year shows the rapid shift to the New England crate, a package holding somewhat more than a bushel, thus carrying a full bushel without requiring any tight packing. These packages are also used as storage crates. A loose or jumble pack is most common.

Apples in Cold Storage—Providence, R.I., Nov. 1, 1935

Crates			69	%
Eastern	(Boston) Box	5	10
Basket			26	%
Few Ba	rrels			
Fruit for	Sale on	Wholesale	Market	This
	Seaso	n-1935-36		
Crates	**************		50	%
Eastern	(Boston	Box .	25	%

The use of these crates seems likely to continue.—E. P. CHRISTOPHER, Sec'y, Kingston.

Let Us Help You Solve YOUR Packaging Problems

Here is a symposium of news and views of the changing trend in fruit packaging as specially reported by the secretaries of the various state horticultural societies for this issue. AMERICAN FRUIT GROWER urges its readers to write in giving their views of the fruit industry's packaging needs. The most interesting, constructive and instructive letters on this subject will be published in future issues of the magazine. If you also want-advice on the solution of your own packaging needs, write to us, briefly outlining your marketing problems.

ILLINOIS—The past two seasons have found the eastern gift box (New England apple crate) making its way into the package requirements of some of our Illinois growers, Last season thousands of this type of container were used in the western and northern sections of the state. Some of the biggest operators in the state packed practically their entire crop in boxes.

There are many Illinois growers who are still using the standard round bottom bushel basket. The chief reason for the majority of our growers continuing to use this style package is the low prices we have been receiving for fruit during the past few years. The flat bottom bushel basket is well liked in most of our fruit growing sections.

of our fruit growing sections.

Many of the leading fruit growers have adopted the use of the cushion instead of the corrugated cap. This is particularly satisfactory for summer apples and peaches.—

JOE B. HALE, Sec'y, Salem.

OHIO—While a good portion of Ohio apples are still packed in baskets, there are some growers who have taken up the New England box with enthusiasm. Growers have learned that the box will bring a better price on the active market. Commission men in the larger markets are favoring the box, and Cleveland is definitely becoming a box market.—F. H. BEACH, Sec'y., Columbus.

UTAH—While Utah was once classified with the Pacific Coast and intermountain states as box apple territory, this is no longer the case, nearly all of the apples now being shipped out in bushels. The box is still used to some extent for local sales, and for unlidded-shipments to the Los Angeles markets where open boxes which permit the fruit to be seen by the buyer and facilitate reconditioning after storage are preferred for Utah and Idaho Jonathans. Most box apples for the Salt Lake market are packed but not wrapped, although one grower, W. A. Cooper of Roy, uses the standard Northwest wrappack.

Utah peaches practically all move in bushels, although substantial quantities are packed in two-layer peach boxes, unwrapped, for local market and truck hauls. All of the early

peaches are so packed.

Although the suitcase and lug have been the standard packs for shipping apricots in the past, the half-bushel pack introduced the last few years is gaining in popularity and offers better promise of appealing to consumers to buy in quantities for making apricot of apricot-pineapple jam and for home canning. Locally where the Utah sweet-pit "Chinese" apricot is popular for canning and jam, bushels and lugs are commonly used also. The kernels of the sweet-pitted apricots are cracked out and added to the jam in place of almonds. Italian prunes are also popular in half-bushels, although bushels are also used. Crates and suitcases are no longer commonly used. Cherries are shipped in 13-pound flat boxes, faced or unfaced; pears in pear boxes and mainly ring-faced in bushels. The ring-face cushion is still used to some extent, but is being replaced by better ring-facing methods.

(Continued on page 18)



"BLACK LEAF 40"
IS ECONOMICAL

50 POUND DRUM Makes

4000 gallons of spray
(I pint to 100 gallons of water)

5000 gallons of spray
(3/4 pint to 100 gallons of water)

6000 gallons of spray
(% pint to 100 gallons of water)

8000 gallons of spray
(1/2 pint to 100 gallons of water)
See Your Spray Material Dealer



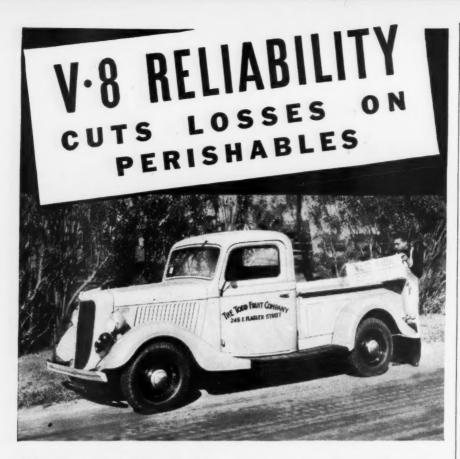
Insist on
ORIGINAL
FACTORYSEALED
CONTAINERS
for full
strength

THE spray protection you provide to a large extent determines the quantity and quality of your fruit. If blossom time promises are to be fulfilled in profits, you must guard against attacks by Aphis, Red-Bug, Leaf-Hopper, insects which may damage foliage and dwarf or gnarl fruit. "Black Leaf 40" used alone or with other standard sprays kills these pests—by contact and by fumes.

ADD "BLACK LEAF 40" TO CODLING MOTH SPRAYS—"Black Leaf 40" is usable with and fortifies stomach poison or "summeroil" codling moth sprays. Stomach poisons kill the worms after they eat. "Summer-oil" kills the eggs. "Black Leaf 40" kills mature eggs and young worms, and if lime is added, it kills adult moths. For most effective killing action fortify your codling moth sprays with "Black Leaf 40".

"BLACK LEAF 40" IS SAFE TO USE—Of vegetable origin—is not caustic—does not "burn" man, horses, trees or crops. Does not injure foliage. It is concentrated, effective, easy to mix and to apply. "Black Leaf 40" is volatile and "fumes off" (evaporates) from the foliage and fruit. "Black Leaf 40" is sold by spray material dealers everywhere.

3647



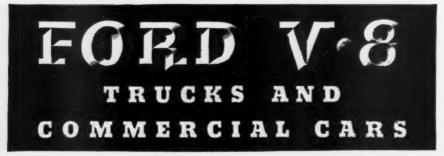
That's why Fruit Growers are changing to Ford V-8 Trucks and Commercial Cars

The ability of Ford V-8 Trucks and Commercial Cars to haul heavy loads at faster speeds . . . and to stay on the job in all kinds of weather . . . is one reason for their constantly increasing popularity among fruit growers. Fresh fruit must be delivered without delay to avoid spoilage losses that eat up profits.

But even more important to the fruit grower is the OVER-ALL ECONOMY of Ford V-8 Trucks and Commercial Cars. Many owners report material reductions in gas, oil, tire, repair and up-keep costs. Some say they have replaced big, heavy, high-cost units with Fords and are hauling the same loads with savings on taxes, license fees, capital investment and depreciation.

Why don't you try a Ford V-8
Truck or Commercial Car with
your own loads, under your
own operating conditions?
Your Ford dealer invites you
to make this "on-the-job" test
without cost or obligation. Set
a date for your test today!

Any new 112-inch wheelbase Ford V-8 Commercial Car can be purchased for \$25 a month, with usual down-payment. Any new $131\frac{1}{2}$ -inch or 157-inch wheelbase Ford V-8 Truck can be purchased with the usual down-payment on the new UCC $\frac{1}{2}$ % per month Finance Plans.



Rx FOR ROADSIDE STANDS

(Continued from page 13)

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average business is enjoyed by marketers with larger than average displays. Extensive displays, of course, may cause considerable work in opening and closing the market and greater losses from deterioration of unsold produce. The ratio of losses to sales, however, may decrease with an increase in the size of the display, if the management is skillful and if increased sales resulting from the larger display permit more rapid turnover of stock.

Large packages designed primarily for shipment or for sales in wholesale quantities are not in general favor in this business. Many sales are made from bulk displays and are delivered to customers' cars either without containers or in paper bags. In fact, paper and textile bags in sizes up to one bushel capacity are used to some extent even for heavy commodities such as apples and potatoes. The development of paperboard and textile containers and newer types of wooden packages for roadside retailing has been stimulated by a demand for cheap containers which will not damage clothing or automobile upholstering.

From time to time considerable interest in co-operative roadside marketing has been manifested in certain sections of the United States. Although opportunities for successful group undertakings seem plentiful, thus far there has been only small development in this field.

The urge to co-operate in roadside marketing doubtless arises largely from the fact that many farmers are not located where they could hope to attract trade enough to justify the venture alone. By entering into an arrangement with others whereby a retail salesroom or stand may be established jointly in a favorable location, the enterprise offers greater possibilities. Of course, the usual problems of management, finance, standardization, pooling, etc., have to be solved in this type, as in other types of co-operative marketing.

I expect to see more of these cooperative businesses in the future. Certainly many of the small markets now open for only a few weeks in the year and carrying a very meager stock must be quite unprofitable. One substantial, well-managed and inviting food market formed by consolidation of several of these feeble ones would transact more business, return larger profits to each member, and at the same time displace a number of unsightly spots along the highways.

Editor's Note—The third and last article in this series will appear in the July issue.

MEASURE YOUR FRUIT PACKAGING NEEDS

(Continued from page 9)

self is perfect, it does not pay to enhance this beauty by attractive pack-

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Convenience for Consumers: Make your fruit package easy to buy by making it convenient in size. Most fruit packs for consumer purchase are too bulky. Size in itself can defeat a sale, for the simple reason that today's housewife has been educated to buy small quantities of food products frequently, rather than to "lay in a supply" in cellar or pantry. Fruit that is packed with consideration of the consumer's convenience in buying and carrying home will outsell fruit "bulk packed"—and at better prices.

Efficiency in Production: A study of your individual packaging needs will result in efficiency in packing, shipping and selling. Seek a package that fits your fruit products and their selling possibilities. If necessary, change your packing methods to fit a new and better package. Don't handicap sales and profit possibilities by clinging to packing and handling methods just because "you've

always done it that way."

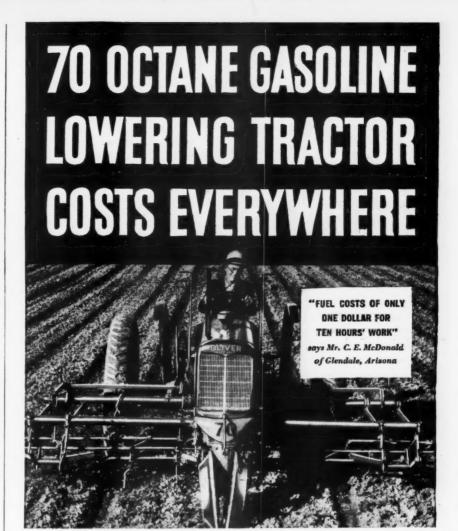
All-Round Economy: Plan your packaging requirements as systematically as you do your spraying schedules. Packaging expense is a sales investment, just as spray materials are a production investment. By planning your packaging needs you can effect economies. Do not buy expensive colored labels and then find that they do not properly fit the container on which you plan to use them. Plan your packaging needs, and then buy in quantities that will give you the benefit of lower prices.

From the report of the Hammonton, N. J., auction market for 1935 it is interesting to note that there were 6,990 small (36-pint) crates and 6,626 large (60-pint) crates sold over the block. The increased use of the small crate should result in a wider distribution and greater market for the small fruit crop.

In preparation for the apple movement to the East this fall railroad cars of the Western Fruit Express line are being reconditioned in the repair plant at Hillyard, Wash. More than 100 cars a day are being taken care of by the workers. During the rush season of September, October and November from 300 to 500 cars a day are reconditioned.

Kentucky, Illinois, Indiana and Missouri growers have been benefited by radio summaries of disease and insect activities broadcast in their states. On these broadcasts, suggestions are made as to spraying activities. The universities of the abovementioned states and federal specialists are co-operating in the preparation of the material.

JUNE, 1936



Lower fuel bills . . . lower oil bills . . . more power . . . faster work . . . with high compression and regular gasoline

HIGH COMPRESSION tractors cut operating costs—use much less fuel per acre—much less oil

Here is a letter from Mr. C. E. McDonald, of Glendale, Arizona.

"On one ranch I have cultivated seventy-five acres of lettuce with six row or three bed cultivator, equipped with six weeder knives, three furrowers and three duck feet (or a total of eighteen tools), at the rate of twenty-five acres a day, and have used twelve and one-half gallons of gasoline, costing eight cents a gallon. On my light or finishing-up cultivating I have cultivated the seventy-five acres in two days with practically the same fuel expense. I am changing my oil every five days and find that about only one quart of oil is used in the five-day period.

"My results with this tractor have

been better than I anticipated, and the fuel cost of only one dollar for ten hours' work so satisfactory that I am pleased to write you this letter."

This is the kind of performance YOU can expect from a high compression tractor. Match it against your present costs.

If you are buying a new tractor, be sure it is HIGH COMPRES-SION. Otherwise, talk to your dealer about equipping your present tractor with high compression pistons or cylinder head.

It pays to buy *good* gasoline for cars, trucks and tractors.

Ethyl Gasoline Corporation, Chrysler Building, New York City, manufacturers of anti-knock fluids for premium and regular gasolines.

From a few seeds, found by chance in a fruit of the normally seedless-type Washington Navel orange, a new orange variety has been originated in the Citrus Experiment Station of the University of California, and is now being offered for commercial growing. Dr. Howard B. Frost states that the trees will set and mature larger crops in some of the drier citrus growing regions than are possible with the

wholly seedless Washington Navel oranges. Because of the chance finding of the original seeds, the variety has been called Trovita, which is the Esperanto word for "found." Dr. Frost also describes three new citrus fruits, two of which are hybrids between separate varieties of mandarin oranges, and the third a hybrid between a satsuma and a mandarin.

PAGE 17

OPPORTUNITY ADS

Only 15c a Word—CASH WITH ORDER ADDRESS: AMERICAN FRUIT GROWER, 1370 Ontario Street, Cleveland, Ohio

BEES

BEES FOR CROSS POLLINIZING FRUIT BLOOM OR raising honey. Write for Prices. D. C. JACKSON, Funston, Georgia.

BERRY BOXES

USE ROLLRIM BERRY BOXES FOR MODERN PACK-ing of FRUITS and VEGETABLES. Send for prices. Capacity seventy million annually. ROLLRIM BOX COMPANY, Benton Harbor, Michigan.

DAIRY GOATS

DAIRY GOAT JOURNAL, DEPT. 603, FAIRBURY, Nebr. Monthly Magazine, 25e yearly; 5 months 10c.

ELECTRIC PUMPS

WORLD'S SIMPLEST ELECTRIC PEMP—ONLY 1 moving part. Nothing to wear or cause trouble, 28-foot suction lift.* Operates cheaply, Money-back guarantee. Thousands satisfied users. Write for Free Catalog. Dept. 196, WESTCO CORP., Davenport, Iowa.

FILMS

FILMS-10c PER ROLL. 120 OR 116. REFLEX, Kirksville, Missouri.

FRUIT GRADERS

FRUIT GRADERS

THE "BUTLER" DIVIDES FRUIT INTO ANY FOUR of seven sizes. Rings instantly interchangeable. It "Handles the Fruit with Rubber Gloves." Weighs only 200 lbs.—easily portable. All steel construction—nothing to build or assemble. Over 12 feet in length but folds to 21 inches. Handpower only \$90; electric, \$115; gasoline, \$140. WE PAY THE FREICHT. See page 38 for details. Write for illustrated circular. BUTLER MFG. CO., Conneaut. Ohio, U.S.A.

THE HEACOCK GRADER. BUILT TO MEET EVERY Packing Requirement. Large Capacity, Careful Handling. Durable Construction, Efficient Operation, Reasonable Cost. Write for Folder and Prices. P. J. HEACOCK, Clearville, Pennsylvania.

HOSIERY

BEAUTIFUL SILK HOSIERY, 5 PAIRS, \$1; SAMPLE 25c. DIRECTCO, AF-221 W. Broad, Savannah, Georgia.

NURSERY STOCK

HARDY NUT TREES—BEST VARIETIES. CATA-logue on request, JONES' NUT TREE NURSERY, Lan-caster, Pennsylvania.

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National Trade Mark Company Munsey Building Washington, D. C. Trade Mark Specialists

PATENTS. LOW COST. BOOK AND ADVICE FREE. L. F. RANDOLPH, Dept. 568-A, Washington, D. C.

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FILMS DEVELOPED ANY SIZE, 25c COIN, INCLUDing two enlargements. CENTURY PHOTO SERVICE, Box 829, La Crosse, Wis.

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WRITE ABOUT POROUS HOSE IRRIGATING, B. & B. IRRIGATING SYSTEM, Port Clinton, Ohio.

PRINTING

YOUR PRINTING CHOICE: LETTERHEADS, ENvelopes, Business Cards 259—\$1.00. 50 Sets (2 envelopes) Wedding Invitations \$3.00 P.P. SEEJAY SERVICE, 2459 Station St., Chicago, Illinois.

RHEUMATISM, NEURITIS

RHEUMATISM, NEURITIS, ACHES AND PAINS quickly relieved with Wintergreen Tablets, absolutely guaranteed. Write for free literature. Department A. THE KEENE PHARMACAL CO., Delaware & Ohio St., Indianapolis, Indiana.

SALESMEN WANTED

CASH PAY WEEKLY FOR SALESMEN—SPARE OR Full time. Thousands make \$50.00 or more in a week SELLING STARK TREES, etc. Healthful outdoor work. Write Quick for FREE Sales Making Outfit and WEEKLY PAY Plan. No Cash or Experience needed. If you can't sell, BUY Stark Trees. WRITE FOR CATALOG. STARK NURSERIES, Box C-155, Louisiana, Missouri.

SPRAY GUNS

CUSHMAN'S MODERN SPRAY GUN. A SCIENTIFIC fog producer designed by E. B. Cushman, founder of the Cushman Motor Works, Lincoln, Nebr., and L. W. Cushman, Missouri apple grower over 20 years and patentee of first spray gun 1998. Satisfaction guaranteed. Write CUSHMAN BROS., Station A. Palo Alto, California.

SPRAYING LIME

HIGH CALCIUM SPRAYING LIME PRODUCED AT Keeport, Indiana. THE FRANCE STONE COMPANY, Toledo, Ohio.

VEGETABLE PLANTS

SWEET POTATO PLANTS. NANCY HALLS FROM treated high grade seed. Big. strong, well rooted plants. Postpald: 500-81.00. 1000-81.75. Express paid: 3000 over-\$1.50 per 1000. Guaranteed. DOW THACKER. Box 31, Dresden, Tennessee.

STATE NEWS

(Continued from page 14)

Probably less than 10 per cent of Utah fruit is sold in roadside markets, although this method of marketing is increasing in popularity. Trucks, however, handle in the neighborhood of half the crop, mostly to nearby states of Idaho, Wyoming and Nevada, with some truck movement of apples to Los Angeles.— F. M. COE, Sec'y, Logan.

INDIANA-Added interest in fruit packages has been marked at recent meetings of fruit growers. New methods of marketing and need for economical packages have helped to bring about certain changes.

The box has been displacing the basket rather rapidly on a number of the large midwestern city markets but this result has been attributed very much to western boxed fruit. It should be safe to conclude that 90 to 95 per cent of Indiana apples and peaches were marketed in baskets in 1935.

One large grower in Indiana made boxes out of native timber for the 1935 crop but, out of native timber for the 1935 crop but, as a rule, they were used for storage purposes only. A good point favoring the box is the increase of a given storage space by almost 20 per cent over baskets. This is important both in commercial storage rates and in home storage capacity.

Some peaches, plums and cherries are sold Some peaches, plums and cherries are sold in Climax baskets and a few plums and cherries are sold in lugs. Grapes are sold almost entirely in Climax baskets of varying size. Package ventilation and gift packages are receiving increased consideration.—EVERETT WRIGHT, Sec'y, Lafayette.

SOUTH DAKOTA—When thinking of fruit packages in South Dakota, it might be well to consider how John Robertson of Hot to consider how John Robertson of Hot Springs, a leading orchardist in this state, markets his fruit. He uses the bushel box for his apples and is pleased with it. Being off the main highway, he is unable to utilize the roadside stand idea, but many customers come to his orchard and buy their fruit direct.

—W. A. SIMMONS, Sec'y, Sioux Falls.

MARYLAND-For the most part the commercial growers are not departing from the usual packages, but there is a trend from the barrel even on export shipments. Growers are guided in their selection of packages by demands of their trade, some growers having reported considerable demand and sale for smaller gift packages, either paper cartons or basket material. Possibly the greatest change occurring in commercial packages in Maryland is the use of stronger baskets with variation of the commercial packages in Maryland is the use of stronger baskets with variations. ous types of crown lids, and also the "dressing up" of baskets by the use of more decorative liners with scalloped collars, cushion pads and shredded oil paper.—A. F. VIERHELLER, Sec'y, College Park.

WISCONSIN-The bushel basket is still the most widely used package for apples in Wisconsin. There is a trend, however, towards the new apple box because it is a practical package for both orchard and local market use, H. J. RAHMLOW, Sec'y, Madison.

NEBRASKA—The principal package used for apples in Nebraska is the bushel basket. The better grades and those that are to be put into cold storage generally go into flat-bottomed tub baskets, whereas the cheaper grades and those for immediate consumption are frequently put into round-bottomed baskets. Some growers have tried in a small way the knocked-down type of bushel box.

At roadside stands where people want to take apples into their automobiles, baskets are objectionable, and frequently paper sacks, both the bushel and half-bushel size, are in common use. These have the names of the growers printed on them in rather large letters. Grapes are generally sold in five-pound and 16-pound Climax baskets. HOPPERT, Sec'y, Lincoln.

ARKANSAS-While Arkansas is far from being the largest state in the Union, its different sections have such a wide variation in weather that probably a greater assortment of fruits is grown here than in any other state with the exception of California.

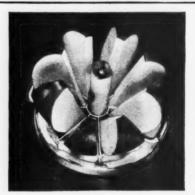
Apple growing is confined to a small section on the Ozark plateau. The peach sections are more or less scattered over the

Apples in Arkansas move principally in bulk to trucks.

Peaches are principally packed in bushel baskets. A few early varieties are packed in half bushels. The half bushel seems to be gaining in popularity each year.—PAUL P. BROGDON, Sec'y., Springdale.

WASHINGTON—The regular Western apple box still is the champion of fruit packages in Washington. Our small fruits generally follow the trends for packages used in the east with some growers using the paper box

CALIFORNIA—All of the apples going into marketing channels in this state, or at least most of them, are put up in the Western apple box. The lug box is the predominating cherry package and these are also being used for grapes in some sections.



NEW Apple and Pear Cutter

The perfect fruit sampler for growers. Let your customers and buyers sample your product. The perfect purchase or gift for fruit consumers.

Beautifully and Strongly Made Quadruple Silver Plated Will Last a Lifetime

\$2.00 postpaid

AMERICAN FRUIT GROWER 1370 Ontario St., Cleveland, O.

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UNTIL YOU TRY THIS

WONDERFUL TREATMENT for pile suffering. If you have piles in any form write for a FREE sample of Page's Pile Tablets and you will bless the day that you read this. Write today. E. R. Page Co., 482-A8 Page Bidg., Marshall, Mich.

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PACKAGING FOR QUALITY FRUITS

(Continued from page 11)

fruit sales. Such combination salesboosters place a greater variety of fruits before the prospective purchaser. Also, the quantity of fruit contained in each package is readily usable by the consumer, thus cutting down spoilage.

Metal rimmed small fruit cups are being used extensively in western states and are particularly suited to long distance shipping. For western grapes, the California lug box is most commonly used. Other packages for shipping California grapes are standard drums and kegs.

A far cry from the old New England "keg" for blueberries is the attractive package in which this fruit is now sold. This package is usually made of paraffined cardboard or molded paper, shaped similar to the American box. The old-type "keg" or drum was a familiar sight in many a Yankee home and heralded the blueberry pie and cobbler season.

Crates for shipping berry boxes or grape baskets should be well-ventilated and neat-appearing. The latter may be obtained by an attractive label or stamp, the use of which will also help to keep the brand name of the fruit before the buyers.

In whatever manner the small fruit is packed, sanitary protection from the packing shed to the

kitchen must be considered. Transparent sheeting supplies such protection in an attractive manner and may be applied to any size package or type of fruit. When transparent sheeting is used the appearance of the package may be further enhanced by the use of a distinctive label. An attractive label may be made in the form of a leaf of the fruit contained in the package and printed with the brand name and the name of the grower.

The producer of fruits must ever keep the demands of his specific market in mind and package accordingly. However, quality fruit packed in sanitary, attractive containers will always find a ready

market.

Peach growers of California were faced with a surplus of 6,000,000 cases of canned peaches on January 1. They immediately organized and solicited chain stores in the Midwest and East to sponsor a "National California Canned Peach Sale" which did much to move the fruit during April and May.

. . .

The export market and hotel and restaurant trade in the East are demanding that apples be of uniform size. In the past growers have packed to a minimum size, but not to a maximum diameter. The latter is desired by the large-scale buyers.

T. E. Anderson, veteran citrus grower and exhibitor of Lindsay, Calif., has won \$9,200 in prize money, 92 first prize cups, 400 second prize ribbons and 250 third prize ribbons in the past 25 years.

. . .

An increase of from 25 to 100 per cent was noted in the strawberry plantings in the Ozark region of Arkansas. Interest in berry production in this section has been on the increase for the past two years.

. . .

Of the apple export shipment from New Jersey in 1935, 70 per cent was packed in tub bushel baskets, 28 per cent in standard boxes and two per cent in standard barrels.

. . .

It is estimated that 10 per cent by volume of the total apple crop is lost each year as June drop and thinnings, according to the American Chemical Society.

. . .

The Rio Grande Valley in Texas is producing ribbed oranges with skins like that of cantaloupe.

AMERICAN FRUIT GROWER

BUYS NEW LOW-PRICED DODGE TRUCK



"MY SAVINGS IN GAS ALONE WILL PAY FOR A NEW ROOF ON THE BARN" Says C. Laney



"Before I bought my new truck, I had a showdown," writes C. Laney of Kansasville, Wisc. "I checked up on all three of the lowest-priced trucks to see which one offered the biggest dollar-fordollar value. I picked a Dodge truck and I am certainly glad I did because my savings in gas alone will pay for a new roof on the barn. I am saving money on oil and tires, too, and I found out what people mean when they say you can't equal a Dodge for dependability. I haven't spent a penny yet for repairs."

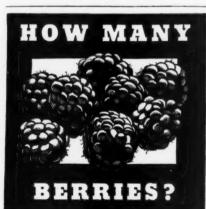
And although a Dodge truck will save you morey every mile you drive it. Dodge

And although a Dodge truck will save you money every mile you drive it, Dodge trucks are now priced right down with the lowest. Just think! The big, 6-cylinder, 136" W. B. Dodge chassis is now only \$505*.

\$370* AND UP

*List prices at factory, Detroit, subject to change without notice. Special equipment, including dual wheels on 11/2-ton, extra. Easy terms gladly arranged to fit your budget, at low cost, through Commercial Credit Company.

Dependable DODGE TRUCKS



It would be impossible to calculate the number of berries that are eaten, each year, with Kellogg's Corn Flakes. Kellogg's with berries is the favorite dish of a vast number of people all over the country. So the fruit grower profits through the sale of Kellogg's.

Kellogg's Corn Flakes are nourishing and wholesome. They come to you ready to serve — save time in the kitchen. Be sure, when you buy Corn Flakes, to ask for Kellogg's by name.

Nothing takes the place of Kellvygs

CORN FLAKES

BUYER'S GUIDE for the FRUIT FARM

CLASSIFIED INDEX

PAGE PAGE	PAGE
Fruit Farm Home	Packing House Equipment
Irrigation and Drainage	
Orchard Instruments 34	Storages42
	Fruit Farm Home

Canning, Preserving and Juice Extracting

Bleaching Materials

National Sulphur Co., Inc., New York, Stauffer Chemical Co. of Texas, New York, N.Y. Virginia Smelting Co., West Norfolk, Va.

American Can Co., New York, N.Y. Automatic Canning Devices, Inc., Chicago, Ill. Continental Can Co., Inc., New York, National Can Co., Inc., New York, N.Y. Thompson Can Co., Dallas, Texas

Caps and Closures

Ball Bros. Co., Muncie, Ind.
Crown Cork & Seal Co., Baltimore, Md.
Cupples Co., St. Louis, Mo.
Hart Glass Mfg. Co., Dunkirk, Ind.
Hazel-Atlas Glass Co., Wheeling, W. Va.
Kerr Glass Mfg. Corp., Sand Springs, Owens-Illinois Glass Co., Toledo, Ohio Phoenix Metal Cap Co., Chicago, Ill.

Clarifying Agents

American Colloid Co., Chicago, Ill. Hydraulic Press Mfg. Co., Mt. Gilead, Johns-Manville, New York, N.Y.

Corers

Burns Mfg. Co., Syracuse, N.Y. F. B. Pease Co., Rochester, N.Y.

Crushers

A. B. Farquhar Co., Ltd., York, Pa. Hocking Valley Mfg. Co., Lancaster, Ohio Hydraulic Press Mfg. Co., Mt. Gilead, Palmer Bros. Engines, Inc., Cos Cob,

Conn.

PAGE 20

Orchard Profits

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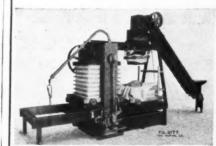
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Fluorine Dusts

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Interstate Chemical Mfg. Co., Jersey City,

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John Lucas Co., Philadelphia, Pa.
McCormick & Co., Inc., Baltimore, Md.
Niagara Sprayer & Chemical Co., Inc.,
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Production Corp., Clarksville,

Tenn.

Tri-Tox Chemical Co., Washington, Ind.

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Liquid Sulphur Dioxide

Virginia Smelting Co., West Norfolk, Va.

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Rodent Destroyers

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Savage Arms Co., New York, N.Y. Winchester Repeating Arms Co., New Haven, Conn.

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W. P. Hammond & Son, Inc., Milwaukee,
Wis.

Ms. Mallinckrodt Chemical Wks., St. Louis, Mo. Rat Biscuit Co., Springfield, Ohio Rose Rat Exterminator Co., Chicago, Ill. D. B. Smith & Co., Inc., Utica, N.Y.

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PAGE 27

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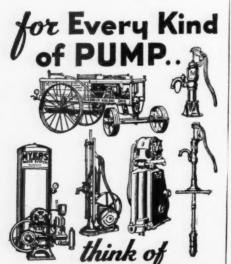
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PAGE 28

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Hardic Mig. Co., Tiudson, Mich. Heil Co., Milwaukee, Wis. Kalamazoo Tank & Silo Co., Kalamazoo, Mich. Kartin Spray Equipment Co., Los Angeles,

Calif. Kirk & Blum Mfg. Co., Cincinnati, Ohio

WATER

John Bean Mfg. Co., Lansing, Mich. Binks Mfg. Co., Chicago, Ill. Dempster Mill Mfg. Co., Beatrice, Nebr. Field Force Pump Co., Elmira, N.Y. Hardie Mfg. Co., Hudson, Mich. Heil Co., Milwaukee, Wis. H. D. Hudson Mfg. Co., Chicago, Ill. Kalamazoo Tank & Silo Co., Kalamazoo, Mich. Mich. Kelly Pipe Co., Los Angeles, Calif. Kewanee Private Utilities Co., Kewanee,

Kirk & Blum Mfg. Co., Cincinnati, Ohio Phillips Specialties, Hartford, Mich.

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Arsenicals

ARSENATE OF CALCIUM

Ansbacher-Siegle Corp., Brooklyn, N.Y. Bowker Chemical Co., New York, N.Y. California Spray-Chemical Corp., Berkeley, Calif.

Chipman Chemical Co., Inc., Bound Brook, N.J.

Commercial Chemical Co., Memphis, Tenn. Corona Chemical Co., Milwaukee, Wis. Dow Chemical Co., Midland, Mich. General Chemical Co., New York, N.Y. Grasselli Chemical Co., Inc., Cleveland, Interstate Chemical Mfg. Co., Jersey City,

N.J.
John Lucas Co., Philadelphia, Pa.
Mechling Bros. Chemical Co., Camden, N.J.

Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y. Sherwin-Williams Co., Cleveland, Ohio

ARSENATE OF LEAD

Ansbacher-Siegle Corp., Brooklyn, N.Y. John Bacon, Inc., Gasport, N. Y. Bowker Chemical Co., New York, N.Y. California Spray-Chemical Corp., Berkeley, Calif. Chipman Chemical Co., Inc., Bound Brook,

Corona Chemical Co., Milwaukee, Wis. Dow Chemical Co., Midland, Mich. General Chemical Co., New York, N.Y. Grasselli Chemical Co., Inc., Cleveland,

Interstate Chemical Mfg. Co., Jersey City,

N.J. Latimer-Goodwin Chemical Co., Grand

Junction, Colo.
John Lucas Co., Philadelphia, Pa.
Mechling Bros. Chemical Co., Camden,

Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y. Sherwin-Williams Co., Cleveland, Ohio Edwin C. Tyson, Flora Dale, Pa.

ARSENITE OF ZINC

California Spray-Chemical Corp., Berkeley, General Chemical Co., New York, N.Y. Latimer-Goodwin Chemical Co., Grand Junction, Colo. Sherwin-Williams Co., Cleveland, Ohio



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Copper Compounds BASIC COPPER SULPHATE

Sherwin-Williams Co., Cleveland, Ohio

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Chipman Chem, Co., Inc., Bound Brook, N.J. Corona Chemical Co., Milwaukee, Wis.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Inc., R. &
H. Chemicals Dept., Pacific Div., El

Monte, Calif.

General Chemical Co., New York, N.Y. Grasselli Chemical Co., Inc., Cleveland, Ohio

John Lucas Co., Philadelphia, Pa. Mechling Bros. Chemical Co., Camden, N.J. Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y. Sherwin-Williams Co., Cleveland, Ohio

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General Chemical Co., New York, N.Y. Kay-Fries Chemicals, Inc., New York, N.Y. Nicotine Production Corp., Clarksville Tenn.

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Tobacco By-Products & Chemical Corp. Louisville, Ky.

Tri-Tox Chemical Co., Washington, Ind.

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Md.

Dow Chemical Co., Midland, Mich.

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Monte, Calif.

General Chemical Co., Inc., New York

N.Y. Grasselli Chemical Co., Inc., Cleveland, Ohio Mechling Bros. Chemical Co., Camden, N.J.

National Oil Products Co., Harrison, N.J. Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.

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Standard Oil Co. of Ohio, Cleveland, 0\(\tilde{\to}\) Sun Oil Co., Philadelphia, Pa.

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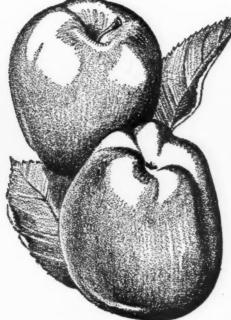
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SPRAYING MATERIALS

ARSENICALS .

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SULFUR COMPOUNDS .

DRY LIME SULFUR LIQUID LIME SULFUR MULSOID SULFUR

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COPPER LIME DUSTS

SULFUR DUSTS

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DRY LI Ansbacher Bowker C Chipman Corona C Dow Cher General C Grasselli Ohio John Luc Mechling Niagara

Sherwin-LIQUID Ansbache Bowker (Californi ley, Ca Central Dow Che E. I. du

& H. (

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Monte, General (

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American Colloid Co., Chicago, Ill.
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Dow Chemical Co., Midland, Mich.

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John Lucas Co., Philadelphia, Pa.
Mechling Bros. Chemical Co., Camden, N.J.
Merrimac Chemical Co., Everett, Mass.
National Sulphur Co., Inc., New York, N.Y.
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PAGE 34

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NURSERY STOCK

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A. Daigger & Co., Chicago, Ill.
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H-B Instrument Co., Philadelphia, Pa.
Moeller Instrument Co., Brooklyn, N.Y.
Precision Thermometer & Instrument Co., Philadelphia, Pa.

E. W. Schultheis, Brooklyn, N.Y. Taylor Instrument Co., Rochester, N.Y. E. B. Van Atta & Co., Inc., Olean, N.Y.

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Wis. Owens-Illi Francisc Pioneer P Simplex F BOXES,

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PACKAGES AND PACKAGING

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BAGS, CLOTA Bemis Bro. Bag Co., St. Louis, Mo. Cerf Bros. Bag Co., St. Louis, Mo. Fulton Bag & Cotton Mills, Atlanta, Ga. Halstead Co., Jersey City, N.J. Premier Bag Co., Brooklyn, N.Y.

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Bemis Bro. Bag Co., St. Louis, Mo. Chase Bag Co., Cleveland, Ohio H. Chesler Burlap Bag Co., Cleveland, O. Fulton Bag & Cotton Mills, Atlanta, Ga.

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BASKETS, FIBER

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Fruit Growers' Supplies

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JOBBER: Sprayers and Fittings, Bellows Dusters.

JOHN BACON INC., GASPORT, N.Y.

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Robert Gair Co., Inc., New York, N.Y. Owens-Illinois Pacific Coast Co., San Francisco, Calif. Pioneer Paper Stock Co., Chicago, Ill. Fred C. Strype, New York, N.Y.

BOXES, BERRY

Wm. E. Asplin Basket Co., Cleveland, O. Berlin Fruit Box Co., Berlin Heights, O. Bloomer Bros. Co., Newark, N.Y. Frank L. Deaner & Son, Benton Harbor,

Mich.

H. A. Du Bois & Sons, Inc., Cobden, Ill.

F. W. Harrison & Son, Painesville, Ohio

New Albany Box & Basket Co., New

Albany, Ind.

B. Jacob Box & Basket Co., Paducah, Ky.

Albany, Ind., Albany, Ind., Paducah Box & Basket Co., Paducah, Ky. Rollrim Box Co., Benton Harbor, Mich. Sutherland Paper Co., Kalamazoo, Mich. Wolverine Carton Co., Grand Rapids, Mc.L.

BOXES, CORRUGATED

Ashtabula Corrugated Box Co., Ashtabula, Ohio Bird & Son, Inc., E. Walpole, Mass. Brunt & Co., Chicago, Ill. Fruit & Produce Packing, Inc., Indian-

apolis, Ind. Robert Gair Co., Inc., New York, N.Y. Hinde & Dauch Paper Co., Sandusky, O. Hummel & Downing Co., Milwaukee,

Owens-Illinois Pacific Coast Co., San Francisco, Calif.

Pioneer Paper Stock Co., Chicago, Ill. Simplex Paper Corp., Adrian, Mich.

BOXES, FIBER

Bird & Son, Inc., E. Walpole, Mass.
Bloomer Bros. Co., Newark, N.Y.
Brunt & Co., Chicago, Ill.
Fruit & Produce Packing, Inc., Indianapolis, Ind. Robert Gair Co., Inc., New York, N.Y. Hinde & Dauch Paper Co., Sandusky, O. Hummel & Downing Co., Milwaukee, Wis.

National Vulcanized Fibre Co., Wilmington, Del.

Fred C. Strype, New York, N.Y.
Van Vick Paper Co., Duluth, Minn. Wabash Fibre Box Co., Terre Haute, Ind.

BOXES, WINDOW

Robert Gair, Inc., Piermont, N.Y. Sutherland Paper Co., Kalamazoo, Mich.

Acme Veneer Package Co., Inc., Orchard Park, N.Y.

Barden & Robeson Corp., Penn Yan, N.Y. Chicago Mill & Lumber Co., Chicago, Ill. Cummer-Graham Co., Paris, Texas H. A. Du Bois & Sons, Inc., Cobden, Ill. Evansville Basket & Crate Co., Evans-

ville, Ind.
General Box Co., Chicago, Ill.
Green Co., Bellows Falls, Vt.
Marinette & Menominee Box Co., Marinette, Wis.

Nants & Co., Gleason, Tenn. New Albany Box & Basket Co., New Al-

bany, Ind. New England Box Co., New York, N.Y. Pierce-Williams Co., South Haven, Mich. Smeed Box Co., Cleveland, Ohio Edwin C. Tyson, Flora Dale, Pa. Walter Verhalen Co., Dallas, Texas Virginia Barrel Co., Winchester, Va.

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Acme Veneer Package Co., Inc., Orchard Park, N.Y. Burlington Basket Co., Burlington, Iowa Cummer-Graham Co., Paris, Texas Edgerton Mfg. Co., Plymouth, Ind. Evansville Basket & Crate Co., Evans-

ville, Ind.
Walter Verhalen Co., Dallas, Texas
Virginia Barrel Co., Winchester, Va.

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Acme Veneer Package Co., Inc., Orchard Park, N.Y.
Charles M. Allen, Inc., Fulton, N.Y.
John Bacon, Inc., Gasport, N.Y.
Continental Paper Products Co., Denver,

Colo. Fruit & Produce Packing, Inc., Indian-

apolis, Ind.
B. F. Goodrich Co., Akron, Ohio
Hinde & Dauch Paper Co., Sandusky, O.
Rice, Trew & Rice Co., Inc., Biglerville,

Simplex Paper Corp., Adrian, Mich. Fred C. Strype, New York, N.Y. Sutherland Paper Co., Kalamazoo, Mich.

Excelsion

Charles M. Allen, Inc., Fulton, N.Y.
American Excelsior Corp., Chicago, Ill.
Brooks Paper Co., St. Louis, Mo.
Clark Stek-O Corp., Rochester, N.Y.
Excelsior Mills Corp., Jacksonville, Fla.
Excelsior Supply Co., Cleveland, Ohio Paper Supply Co., Los Angeles, Calif. Pioneer Paper Stock Co., Chicago, Ill. Sylvania Industrial Corp., New York, N.Y. E. W. Twitchell, Inc., Philadelphia, Pa.

Fringes

Acme Veneer Packing Co., Inc., Orchard Park, N.Y.

Continental Paper Products Co., Denver, Colo.

Frank L. Deaner & Son, Benton Harbor,

Fruit & Produce Packing, Inc., Indian-

apolis, Ind.
Pioneer Paper Stock Co., Chicago, Ill.
Rice, Trew & Rice Co., Inc., Biglerville,

Sutherland Paper Co., Kalamazoo, Mich. Wolverine Carton Co., Grand Rapids, Mich

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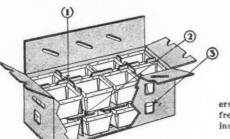
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Grand Rapids, Mich.

ASHTABULA BERRY CRATES

Eliminate loss due to crushed berries!



NOTE THESE FEATURES

- 1. One inch clearance over top of baskets in each laver.
- 2. Separator pad between layers.
- 3. Ample ventilation. No spoiled fruit.

These modern and attractive containers deliver your berries to the consumer as fresh and whole as when they were packed insuring quicker sales at top prices.

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A. Hoen & Co., Baltimore, Md. Lambooy Label & Wrapper Co., Kala-mazoo, Mich.

A. B. Morse Co., St. Joseph, Mich.
Rainbow Litho. Co., Cincinnati, Ohio.
Reynolds & Reynolds Co., Dayton, Ohio
St. Louis Sticker Co., St. Louis, Mo.
Schmidt Litho. Co., San Francisco, Calif.
Unique Printed Products Co., Inc., Terre

Haute, Ind.
United States Printing & Lithograph Co.,
Cincinnati, Ohio
Wheeling News Lithograph Co., Wheeling, W. Va.



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Acme Veneer Package Co., Inc., Orchard

Park, N.Y.
Charles M. Allen, Inc., Fulton, N.Y.
Arkell Safety Bag Co., New York, N.Y.
John Bacon, Inc., Gasport, N.Y.
Clark Stek-O Corp., Rochester, N.Y.
Continental Paper Products Co., Denver, Colo.

Frank L. Deaner & Son, Benton Harbor, Mich.

ville, Ind.
Fruit & Produce Packing, Inc., Indianapolis, Ind. Evansville Basket & Crate Co., Evans-

Owens-Illinois Pacific Coast Co., San

Owens-Illinois Pacific Coast Co., San Francisco, Calif. Pioneer Paper Stock Co., Chicago, Ill. F. A. Read, Inc., Albion, N.Y. Rice, Trew & Rice Co., Biglerville, Pa. Simplex Paper Corp., Adrian, Mich. Fred C. Strype, New York, N.Y. Sutherland Paper Co., Kalamazoo, Mich. Edwin C. Tyson, Flora Dale, Pa.

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Basket Liners—Basket Cush-ions—Rubber Padded Facers—Fringes— Corrugated Caps—Packing Tubs—Shred-ded Oil Paper—Crate Guards

The complete line of paper supplies for packing Fruits and Vegetables

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John Bacon, Inc., Gasport, N.Y. Continental Paper Products Co., Denver,

Diamond-T-Waxed Paper Corp., Chica-

Fruit & Produce Packing, Inc., Indianapolis, Ind.

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Paterson Parchment Paper Co., Bristol, Pa.

Pioneer Paper Stock Co., Chicago, Ill. Fred C. Strype, New York, N.Y. Winchester Cooperage Co., Winchester,

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Special SPEED-MO Special SPEED-MO logotype rubber stamps especially designed for marking fruit packages. This stamp is complete in one unit having interchangeable logotypes for size, grade and brand. With it is not necessary to be



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Pioneer Paper Stock Co., Chicago, Ill.
Fred C. Strype, New York, N.Y.
Winchester Cooperage Co., Winchester,

Wrappers, Plain

California Fruit Wrapping Mills, Inc., Pomona, Calif. Fruit & Produce Packing, Inc., Indianapolis, Ind.
Wolf River Paper & Fiber Co., Shawano,

Wis. Wrappers, Transparent

Brooks Paper Co., St. Louis, Mo. Du Pont Cellophane Co., Inc., New York,

Eastman Kodak Co., Rochester, N.Y. Goodyear Tire & Rubber Co., Akron, O. Pioneer Paper Stock Co., Chicago, Ill. Fred C. Strype, New York, N.Y. Sylvania Industrial Corp., New York,

Wrappers, Vegetable Parchment

Kalamazoo Vegetable Parchment Co., Parchment, Mich. Paterson Parchment Paper Co., Bristol,

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Belt Lacing

Armstrong-Bray & Co., Chicago, Ill.

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Cincinnati Rubber Mfg. Co., Cincinnati, Onio Continental Rubber Works, Erie, Pa. Goodall Rubber Co., Philadelphia, Pa. B. F. Goodrich Co., Akron, Ohio Goodyear Tire & Rubber Co., Inc., Akron,

Ohio Parma Water Lifter Co., Parma, Idaho Republic Rubber Co., Youngstown, Ohio B. C. Tillinghast Rubber Co., Philadelphia,

Pa. S. Rubber Products, Inc., New York, N.Y.

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Crane Co., Chicago, Ill. A. B. Farquhar Co., Ltd., York, Pa. Frick Co., Inc., Waynesboro, Pa.

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Box Making Machinery

Cobden Machine Works, Cobden, Ill. Morgan Machine Co., Inc., Rochester, N.Y. Parker Machine Works, Riverside, Calif. Paxton Nailing Machine Co., Inc., Santa Ana, Calif.

Box Nailing Machinery

Harmon Clark Co., Chicago, III. William S. Doig, Inc., Brooklyn, N.Y. Morgan Machine Co., Inc., Rochester, N.Y.

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American Brush Co., Portland, Ore.
John Bean Mfg. Co., Lansing, Mich.
Braun Brush Co., Woodhaven, N.Y.
Fred A. Durand, Woodbury, Ga.
Trescott Co., Inc., Fairport, N.Y.
Wayland Machinery Co., Inc., Covesville,

Wolfe Brush Co., Pittsburgh, Pa. Wooster Brush Co., Wooster, Ohio



Wolfe Brush Company, Pennsylvania Avenue & Bidwell Street, N.S. Pitts-burgh, Pa. Manufac-turers of brushes for

industrial use. Inquiries solicited for special styles for machine or hand use.

FRUIT WASHER, GRADER PACKING TABLE -ALL IN ONE MACHINE -EASY TO OPERATE. STURDY CONSTRUCTION. ADJUST-ABLE FOR SIZE AND TYPE. WRITE TODAY FOR ILLUSTRATED BULLETIN NO. 1B.

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Jeffrey Mig. Co., Columbus, Ohio
Link-Belt Co., Chicago, Ill.
Locke Steel Chain Co., Bridgeport, Conn.
Parma Water Lifter Co., Parma, Idaho
Phillips Specialties, Hartford, Mich. U. Pa. S. Chain & Forging Co., Pittsburgh,

Cleaners and Polishers

George G. Bates, Kingston, N.Y.
John Bean Mfg. Co., Lansing, Mich.
Fred A. Durand, Woodbury, Ga.
J. D. Grabill, Woodstock, Va.
Niagara Sprayer & Chemical Co., Inc.,
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Trescott Co., Inc., Fairport, N.Y.
Wayland Machinery Co., Inc., Covesville,
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Paxton Nailing Machine Co., Inc., Santa Ana, Calif. Phillips Specialties, Hartford, Mich. Standard Conveyor Co., N. St. Paul, Minn. Trescott Co., Inc., Fairport, N.Y.

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J. P. Devine Mfg. Co., Mt. Vernon, Ill. Moore Dry Kiln Co., N. Portland, Ore. Phillips Specialties, Hartford, Mich.

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Carbide & Carbon Chemicals Corp., New York, N.Y. Ohio Chemical & Míg. Co., Cleveland, Ohio

Ethylene Ripening Outfits

Carbide & Carbon Chemicals Corp., New York, N.Y. Chemical & Mfg. Co., Cleveland, Ohio

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Mitts & Merrill, Saginaw, Mich.

Facers, Barrel

Fruit & Produce Packing, Inc., Indianapolis, Ind. B. F. Goodrich Co., Akron, Ohio Hauber Cooperage Co., Kansas City, Kans. A. H. Phillips Mfg. Co., Hulberton, N.Y. Winchester Cooperage Co., Winchester, Va.

Facers, Basket

Acme Veneer Package Co., Inc., Orchard Park, N.Y Continental Paper Products Co., Denver, Colo. Fruit & Produce Packing, Inc., Indianapolis,

B. F. Goodrich Co., Akron, Ohio Hall Mfg. Co., Cedar Rapids, Iowa AMERICAN FRUIT GROWER

Hauber Cooperage Co., Kansas City, Kans. A. H. Phillips Mfg. Co., Hulberton, N.Y. Rice, Trew & Rice Co., Inc., Biglerville, Pa. Simplex Paper Corp., Adrian, Mich. Winchester Cooperage Co., Winchester, Va.

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Fyr-Fyter Co., Dayton, Ohio
General Fire Truck Corp., St. Louis, Mo.
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N.Y. N.Y. Wil-X-Mfg. Corp., Brooklyn, N.Y.

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Fly Ribbons

Tanglefoot Co., Grand Rapids, Mich.

Fly Sprays

Excelsior Fly Paper Mills, Chicago, Ill. Gulf Oil Corp. of Pa., Pittsburgh, Pa. Lanair Co., Inc., Chicago, Ill. Los Angeles Chemical Co., Los Angeles, Calif. Sinclair Refining Co., New York, N.Y. Stanco, Inc., New York, N.Y. Standard Oil Co. of Ohio, Cleveland, Ohio

Forms, Packing

Tanglefoot Co., Grand Rapids, Mich.

Acme Veneer Package Co., Inc., Orchard Park, N.Y. Clark Stek-O Corp., Rochester, N.Y. Continental Paper Products Co., Denver, Colo. Frank L. Deaner & Son, Benton Harbor, Mich. Fruit & Produce Packing, Inc., Indianapolis, Ind. Winchester Cooperage Co., Winchester,

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Ripen with Ethylene Gas



Ethylene ripens bananas, citrus fruits, pears, and tomatoes a few weeks ahead of Nature. Firmer fruit and better color is assured.

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MACHINERY FOR APPLES AND TOMATOES

Dependable Accurate Fast

Free from bruise Silent running Exceptionally fine steel construction

For Packing Barrels, Boxes, Bushels and Cartons

A size for every user

Wayland Machinery Co., Inc. Covesville, Virginia

Apple, Peach, Fruit Graders that are dependable, at low cost. Priced \$100.00 and up. PARMA WATER LIFTER CO., Parma, Idaho, U. S. A.

KOKOMO NAIL & BRAD CO.

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Manufacturers of Cement Coated and Common Nails for over thirty-five years. Can make shipment of all sizes in any quantity.

A GOOD Fruit Grader



for as Low as \$90

Read what growers say about it-

Read what growers say about it—
"No damage to fruit, and we have a reputation for careful handling."
"As high as 70 bushels per hour graded with our electric Butler."
"No mechanical trouble—we want to compliment you on the ease of operation."
Names of many growers using Butler Graders, and their full reports, are in our new 1936 bulletin. Write for it now.
The Butler Grader "Handles the Fruit with Rubber Gloves"—it has soft rubber cups and sizing rings. Changeable rings, to divide fruit into any four sizes you want.
Shipped complete, ready to start work—nothing to build. Hand model \$90; Electric \$115; Gasoline \$140.

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F. B. Pease Co., Rochester, N.Y. Phillips Specialties, Hartford, Mich. Taylor's Grader, Anna, Ill. Trescott Co., Inc., Fairport, N.Y. Edwin C. Tyson, Flora Dale, Pa. Wayland Machinery Co., Inc., Covesville, Va.

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Atlas Tack Corp., Fairhaven, Mass. Kokomo Nail & Brad Co., Kokomo, Ind.

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AMERICAN FRUIT GROWER WHEN YOU

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Ripening Outfits, Ethylene

Carbide & Carbon Chemicals Corp., New York, N.Y. Ohio Chemical & Mfg. Co., Cleveland, O.

Sorting Tables, Fruit

John Bean Mfg. Co., Lansing, Mich. Cutler Mfg. Co., Portland, Ore. Fred A. Durand, Woodbury, Ga. Ideal Grader & Nursery Co., Hood River, Ore.

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AMERICAN FRUIT GROWER

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Cobden Machine Works, Cobden, III. William S. Doig, Inc., Brooklyn, N.Y. Fruit & Produce Packing, Inc., Indian. apolis, Ind.
General Food Package Equipment Corp.
Benton Harbor, Mich.
Heller Co., Cleveland, Ohio

Markwell Mfg. Co., Inc., New York, N.Y. St. Joseph Iron Works, St. Joseph, Mich. Saranac Machine Co., Benton Harbor, Mich.

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Fruit & Produce Packing, Inc., Indian-Markwell Mfg. Co., Inc., New York, N. Y.

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See Advs. Pages 28, 40, 41

Washers, Fruit

John Bean Mfg. Co., Lansing, Mich. Cutler Mfg. Co., Portland, Ore. Fairbanks, Morse & Co., Chicago, Ill. Ideal Grader & Nursery Co., Hood River,

Parma Water Lifter Co., Parma, Idaho Paxton Nailing Machine Co., Santa Ana, Calif.

Phillips Specialties, Hartford, Mich. Edwin C. Tyson, Flora Dale, Pa. Wayland Machinery Co., Inc., Covesville,

Washing Compounds, Fruit

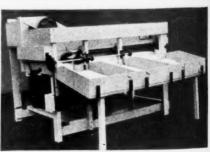
American Colloid Co., Chicago, Ill. American Cyanamid & Chemical Corp, Insecticide Dept., New York, N.Y. General Chemical Co., New York, N.Y. Grasselli Chemical Co., Inc., Cleveland,

Mallinckrodt Chemical Works, St. Louis, Mo.

Mechling Bros. Chemical Co., Camden, N.J.

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A self-contained grading, brushing and sizing unit complete with gasoline or electric motor and bins. Easily moved. Capacity 600 bushels in 10 hours. Small grower can put up standard pack and compete with large packing houses.

Sells for \$205 to \$350 Write for bulletin Fred A. Durand Woodbury, Ga.

JUNE, 1936

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PICKING

Aprons

Fulton Bag & Cotton Mills, Atlanta, Ga. Miller Rubber Co., Akron, Ohio Republic Rubber Co., Youngstown, Ohio Seattle Tent & Awning Co., Seattle, Wash.

Winchester Cooperage Co., Winchester,

PICK FRUIT THE EASY WAY USE CYCLONE PICKING BAGS





Bags

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John Bacon, Inc., Gasport, N.Y.
John Bean Mfg. Co., Lansing, Mich.
Cerf Bros. Bag Co., St. Louis, Mo.
Cyclone Seeder Co., Urbana, Ind.
Fulton Bag & Cotton Mills, Atlanta, Ga.
Hardie Mfg. Co., Portland, Ore.
Hauber Cooperage Co., Kansas City,
Kans

Philadelphia Blanket Co., Inc., Philadel-phia, Pa.

TWO FAMOUS APPLET

PICKING BAGS

"The Pennsylvania" "The So Easy" PHILADELPHIA BLANKET CO.

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Scheffer & Rossum Co., St. Paul, Minn. Seattle Tent & Awning Co., Seattle, Wash.

M. D. Smith Tent & Awning Co., Atlan-

ta, Ga.
Taylor's Grader, Anna, Ill.
Edwin C. Tyson, Flora Dale, Pa.
Wells & Wade, Wenatchee, Wash.
Winchester Cooperage Co., Winchester,

Fruit Picker's Bag

Less Bruised Fruit—More Efficiency! Reg-ular stock models, or special designs for any need. High quality. Send \$1.00 for trial apple or peach bag, \$2.00 for Citrus. Money back if bag is returned. Order now! New model.

M. D. SMITH TENT & AWNING COMPANY

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Iowa Frank L. Deaner & Son, Benton Harbor,

Mich. Edgerton Mfg. Co., Plymouth, Ind. Fruit Growers Package Co., Paw Paw,

Mich. Leigh Banana Case Co., Chicago, Ill. Pierce-Williams Co., South Haven, Mich.

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Bartlett Mfg. Co., Detroit, Mich. Clauss Shear Co., Fremont, Ohio Henry Disston & Sons, Inc., Philadelphia, Pa. W. S. Hart, New Smyrna, Fla. Harvey Machine Co., Los Angeles, Calif. J. Wiss & Sons Co., Newark, N.J. PAGE 40

Crates, Field

Berlin Fruit Box Co., Berlin Heights, Ohio

Frank L. Deaner & Son, Benton Harbor, Mich.

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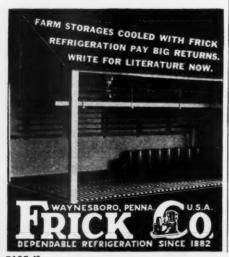
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It is a crawler tractor, it has (exclusively) controlled differential steering, and it has a ground pressure of less than 6 pounds per square inch of track.

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Cletrac models represent greatest dollar-for-dollar value in crawler tractors, measured by any yardstick you select. Before you buy, compare with Cletrac.

THE CLEVELAND TRACTOR CO.

CLEVELAND, OHIO



JUNE, 1936



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GMC truck is unmatched. In addition to distinctive streamlined styling, it has dozens of quality features that assure the safety, dependability and economy experienced truck operators have come to expect in a GMC-features that are reflected in greater earning ability.

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SUCCESSFUL ORCHARDS

■ A "ROUND TABLE" PAGE FOR EVERY GROWER

FERTILIZERS BUILD STRAWBERRY YIELDS

"FOR many years the strawberry grow-ers in this section have not worried a great deal about fertilizers. New land was plentiful and it was cleared each year for strawberry planting. New land is now getting scarce in this part of the country and the strawberry grower must resort to planting on old land low in productivity," according to Charles Carmichael, secretary of the Ozark Fruit Growers' Associ-ation, Joplin, Mo. He continues: "Be-cause the strawberry is a comparatively shallow-rooted plant, it requires a plentiful and immediate supply of plant food. Barnyard manure was at one time used, but this practice has been discouraged due to the introduction of weed seeds with the manure and to the expense. We now find the best practice is to plant cowpeas or soybeans the year previous to planting the strawberries. The leguminous cover crop is plowed under in the fall. The land is fertilized the following spring, about 10 days before planting, with 400 to 600 pounds of a 4-12-4 fertilizer, applied in a pounds of a 4-12-4 fertilizer, applied in a strip. In this section 400 pounds of superphosphate and 250 pounds of some nitrogen fertilizer are used. On some beds with poor soil, that have fruited, the same amounts of superphosphate and nitrogen are applied after harvest. Potash is constituted by the same amounts of superphosphate and nitrogen are applied after harvest. sometimes beneficial on sandy soils."

CENTURY-OLD PEAR STILL PRODUCING

wille, Ill., writes, "A pear tree that was planted in 1830 and is said to have produced fruit every year since it came into bearing bloomed again this year. It is not as full of blossoms as it was last year, but I believe there were enough to produce a crop. The tree was planted by Ralph Hagaman Van Pelt, a pioneer, who came to Jersey County in the spring of 1830 from New Jersey. The trip was made in a covered wagon and among the articles that the family brought along was a bundle of fruit trees. Of the orchard that Van Pelt set out, the old pear tree alone remains."

SCREW EYES AID IN BRACING TREES

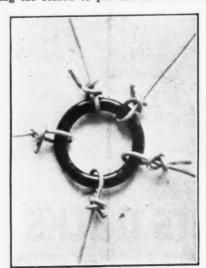
PAGE 46

"FRUIT trees often split in the crotches as the result of a heavy load of fruit or a strong wind storm," writes Earl Knebel of Dunkerton, Iowa. He writes as follows concerning his solution of the problem: "I find that the best method of repair is to place screw eyes in the branches that need bracing and then wire the branches together with telephone wire. I find that this is much better than using wire alone, as the wire cuts into the trees. Where three or more branches need bracing, a ring can be placed midway between the branches and wire run from each branch to the ring."

This page is a place for growers to get together and exchange experiences and ideas. The beginner, as well as the veteran, will find here many practical suggestions for better and more profitable fruit growing. In return for the helps you receive from this page, be ready to pass on, for the benefit of others, any new idea, method or procedure you have developed or run across. Just jot it down as it occurs to you (a postcard will often do) and mail it to the "ROUND TABLE EDITOR," AMERICAN FRUIT GROWER. Don't worry about fancy writing. What the readers of this page want are practical pointers—that are to the point.

LATHAM RASPBERRIES PROVE PROFITABLE

"LATHAM red raspberries are one of the most profitable crops a farmer can produce," says H. L. W. Hill, president of the Raspberry Growers' Association of Portland, Tenn. He further states: "There are certain lessons about berry growing that must be learned from experience. First of all, any man who hopes to make a success of the berry business might just as well make up his mind to spray his canes at least three times during the season to prevent red rust from



Type of wire and ring bracing described at left by Earl Knebel.

damaging them and ultimately killing the plants. Our experience has shown that it pays to use the half-pint cups for packing and shipping the fruit. A case of 24 half-pint cups will bring almost as much on the Chicago market as a case of 24 pint cups. We cultivate and fertilize our patches well and we make money from our fruit."

HELPFUL HINTS FOR SPRAYING SEASON

ARNO MYER, proprietor of the Waldo Orchards at Waldo, Wis., sends in some suggestions for fruit growers at spraying time:

"To clean hands and face of spraying material (lime-sulphur and lead) I apply warm lard and then wipe with a dry cloth or soft paper. Soap and water, following this, will cleanse the skin and leave it in fine condition. To shave easily after the beard has been covered with spray, I use any of the waterless shaving creams, and they work fine.

"To make a quick hose repair by wrapping with wire I use about six feet of No. 20 soft wire. Make a loop in each end. Fasten one end to a solid object and take five wraps, loosely, around the hose. Then have someone put a stick through the other loop and draw the wire taut. Roll the hose in either direction and you will find that the wire will wrap tightly about the hose, and a single twist will secure the ends of the wire. Cut off any surplus wire.

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"Power sprayers can be used to advantage in making holes in the ground and to clean drains or culverts by attaching a length of quarter-inch pipe at the end of the spray hose and turning on the pressure. The water under pressure will force its way through the hardest clay."

CITRUS PRODUCER HAS HIGH YIELD

H. F. FERRY of McAllen, Texas, approached a record yield in his orange harvest. His crop totaled 60,620 pounds of oranges from ninety 21-year-old trees. Mr. Ferry says, "My average production on this block of trees which was about 675 pounds per tree was made by using every method I know of to keep the trees in a healthy condition. You have to combine all of the better practices of disease and insect control, soil management and tree care for success with any kind of fruit."

GROWER HAS PROFITABLE HOBBY

ORCHARDIST A. B. Todd of Vermilion, Ohio, writes, "Although the past winter left me with practically no peaches for this season, I'm glad that the cold weather had no effect on the yield of my hobby which is breeding of pure-bred Scotty dogs. I have a fine litter on hand at the present time."

JUNE, 1936

SOUND, CLEAN, WORM-FREE FRUIT

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. use PROVED SPRAY PRODUCTS

GRASSELLI GRADE

Arsenate of Lead
Bordeaux Mixture
Calcium Arsenate
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Zinc Sulphate
Paradichlorobenzine
and many others
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Send for it!



As EVERY grower knows, the most important factor in the production of clean, sound, worm-free fruit is to effectively control insect pests.

Effective control begins with the selection of dependable spray and dust materials.

The grower who insists on and uses GRASSELU Grade Insecticides for his spray applications takes a definite step toward a quality crop at harvest time.

GRASSELLI Spray and Dust Products are made with one and only one consideration in mind—to eliminate experiment and uncertainty and give the best return to the user.

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They wanted extremely fine sulfur—"Mike" Sulfur with a uniform particle fineness of 5 microns (1/5000 of an inch) is fifteen times finer than 325 mesh.

They wanted high toxicity—"Mike" Sulfur gets its powerful action from the combination of extreme fineness and extra high sulfur content.

They wanted a better wettable sulfur—one that would go into suspension rapidly. "Mike" Sulfur exceeded their expectations.

They wanted denser coverage, more lasting adhesion. "Mike" Sulfur is proving itself in every test.

Finally, they wanted a free-flowing sulfur that would keep its strength. Again, "Mike" Sulfur came through.

Finer fruit, bigger crops await growers choosing Dow "Mike" Sulfur. Give your crop this profitable protection.



YOU'LL FIND SIMILAR SATISFACTION IN THESE ELEVEN DOW SPRAY MATERIALS

Growers throughout the country turn to Dow Products year after year because they know from experience the results they can expect. Like Dow "Mike" Sulfur, each product represents the best in its field. † To meet specific conditions of crops and areas, Dow produces insecticides and fungicides exactly suited to the job. † The wise selec-

tion of spray materials frequently spells the difference between crop failure and success.

A sure way is to let the Dow trade mark be your buying guide.

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